

JVC

SERVICE MANUAL

MODEL

RC-363 L/LB

FM-MW-LW

3-BAND STEREO RADIO
CASSETTE RECORDER



No. 1445
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Features

- 3-band slim & compact design
- Biphonic system
- Tone control
- 5 red LED indications for BATTERY, VU, REC, FM STEREO and BIPHONIC/WIDE.
- One touch recording facility
- Three-way power supply flexibility
- Big power output; 2.7 W + 2.7 W max.

Specifications

Semiconductors	: 4 ICs (including 1 for the motor) 20 transistors and 2 FET
Speakers	: 10 cm (4 Ω) x 2
Tuner section	
Frequency ranges	: FM 88 — 108 MHz MW 540 — 1600 kHz LW 150 — 350 kHz
Antennas	: Telescopic antenna for FM Ferrite core antenna for MW & LW
Tape recorder section	
Tape	: Philips type cassette
Track system	: 4-track, 2-channel stereo
Frequency response	: 70 — 10,000 Hz
Wow & flutter	: 0.15% (WRMS)
S/N ratio	: 42 dB
Rewind time	: Within 100 sec. (C-60 cassette)
Fast forward time	: Within 100 sec. (C-60 cassette)
Amplifier section	
Power output	: Max. 5.4 W (2.7 W + 2.7 W)
Input jacks	: Mic x 2 (1 mV, low impedance)
Output jacks	: Ext. speaker x 2 (load impedance 4 ~ 8 Ω) Headphones x 1
Power supply	: DC 9 V (6 "R20" batteries) Car battery (DC 9 V) AC 240/220/110 V, 50/60 Hz
Power consumption	: 10.5 W
Dimensions	: 197 mm(H) x 418 mm(W) x 90 mm(D) 7-3/4" x 16-1/2" x 3-1/2"
Weight	: 3 kg (without batteries) 3.6 kg (with batteries)

Design and specifications subject to change without notice.

Names of Parts

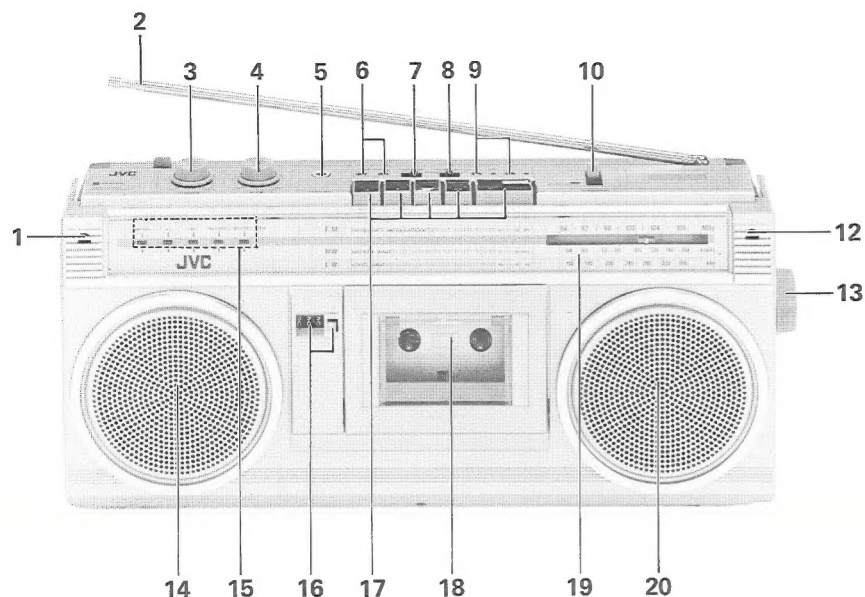


Fig. 1

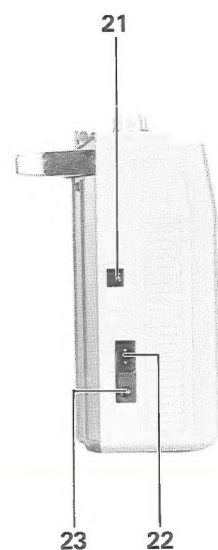


Fig. 2

- | | |
|---|-------------------------------------|
| 1. Left built-in microphone | 16. Tape counter with reset button |
| 2. Telescopic antenna | 17. Tape operation buttons |
| 3. VOLUME control | PAUSE button () |
| 4. TONE control | STOP/EJECT button (■) |
| 5. Headphone jack (PHONES) | FF (fast forward) button (◀◀) |
| 6. External speaker jacks (EXT SPKR) | REWIND button (▶▶) |
| 7. MONITOR switch | PLAY button (◀) |
| 8. MODE/BEAT CUT switch | RECORD button (○) |
| 9. Microphone jacks (MIC) | 18. Cassette door |
| 10. FUNCTION switch | 19. Dial scale |
| 12. Right built-in microphone | 20. Right 10 cm speaker |
| 13. Tuning knob | 21. Voltage selector |
| 14. Left 10 cm speaker | 22. AC jack |
| 15. Indicators (BATTERY, VU, REC, FM STEREO, BIPHONIC/WIDE) | 23. External DC input jack (DC 9 V) |

Main Parts Location

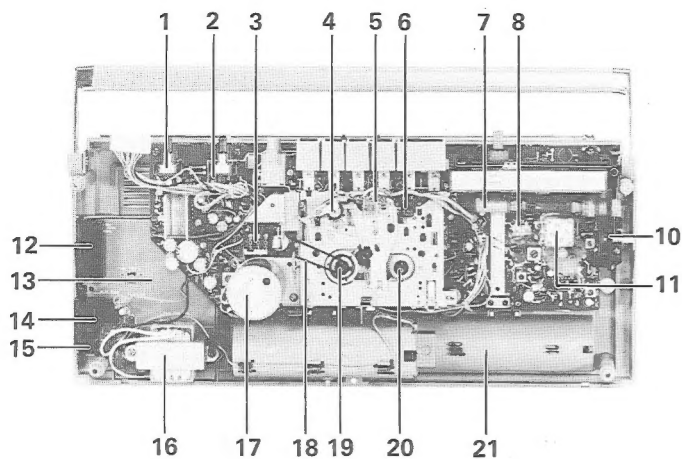


Fig. 3

1. Volume VR
2. Tone VR
3. Tape counter
4. Pinch roller assembly
5. REC/PB head
6. Erase head
7. Bar antenna
8. Main P.W. Board assembly
10. Tuning shaft
11. Variable capacitor
12. Voltage selector
13. Power supply P.W. Board assembly
14. AC jack
15. External DC input jack (DC 9 V)
16. Power transformer
17. Motor
18. Counter belt
19. Take-up reel disc
20. Supply reel disc
21. Battery case

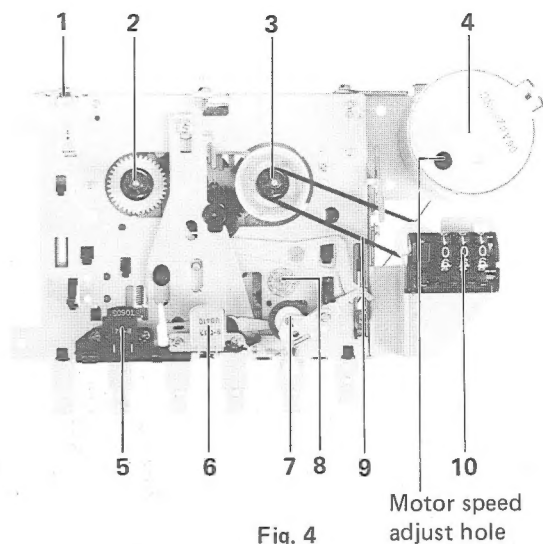


Fig. 4

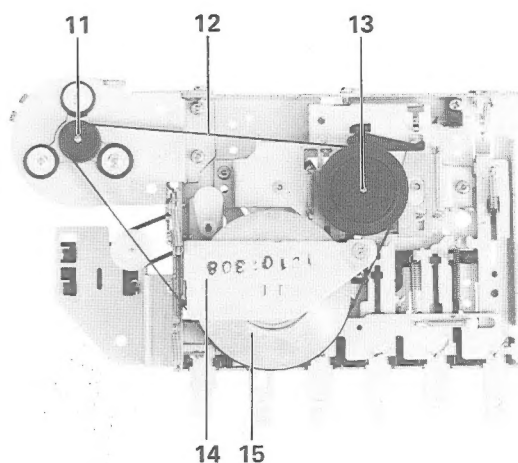


Fig. 5

(Mechanical parts)

1. Recording safety lever
2. Supply reel disc
3. Take-up reel disc
4. Motor
5. Erase head
6. REC/PB head
7. Pinch roller assembly
8. Capstan shaft
9. Counter belt
10. Counter
11. Motor pulley
12. Main belt
13. RF clutch assembly
14. Flywheel bracket
15. Flywheel

How to Remove the Respective Sections

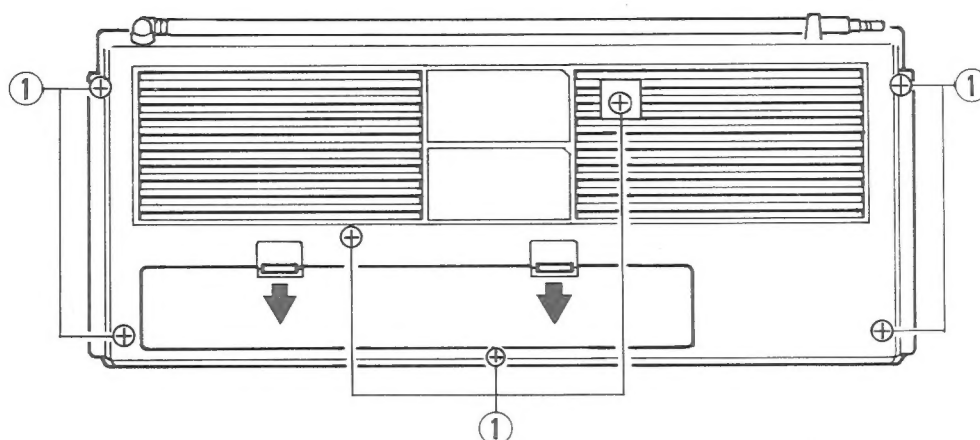


Fig. 6

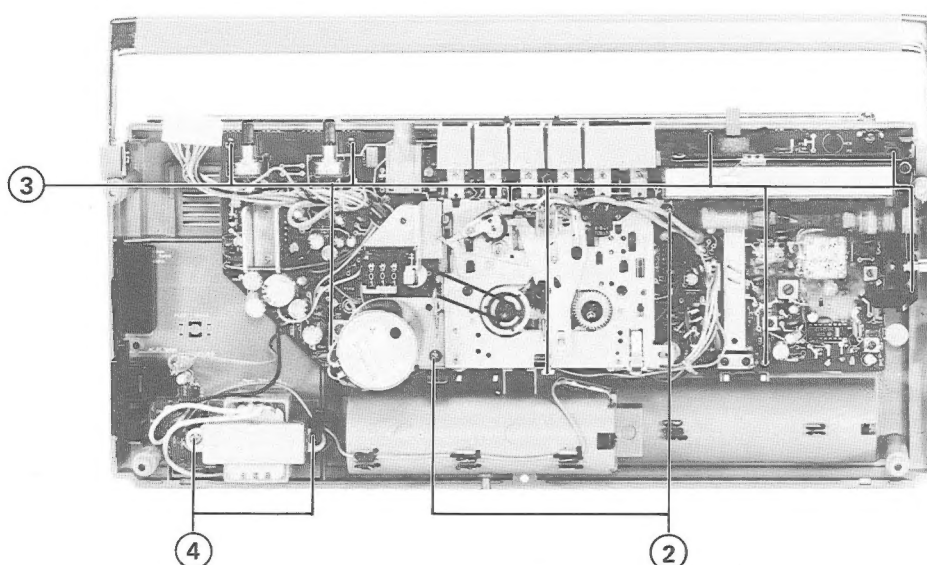


Fig. 7

(Remove in the order of the numbers.)

1. Front cover

- 1) Remove 7 screws ① fastening the front cover to the rear cover.
- 2) To remove the cassette door, push the eject button.
- 3) Pull off volume, tone and tuning knobs.
- 4) Remove the front cover, and then disconnect 4-pin (Speaker wires), 10-pin (E. microphone wires and Indicator wires) connectors.

2. Mechanical assembly

Remove 2 screws ② fastening the mecha. assembly, and then unsolder the REC/PB and E heads wires.

3. Main P.W. Board assembly

Remove 9 screws ③ fastening the main P.W. Board assembly, and then disconnect Power supply wires and earth wire receptacles on power supply P.W. Board.

4. Power supply P.W. Board assembly

Remove 2 screws ④ fastening the power transformer.

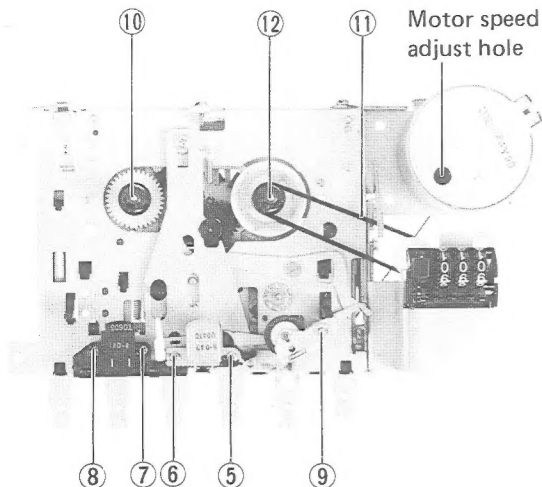


Fig. 8

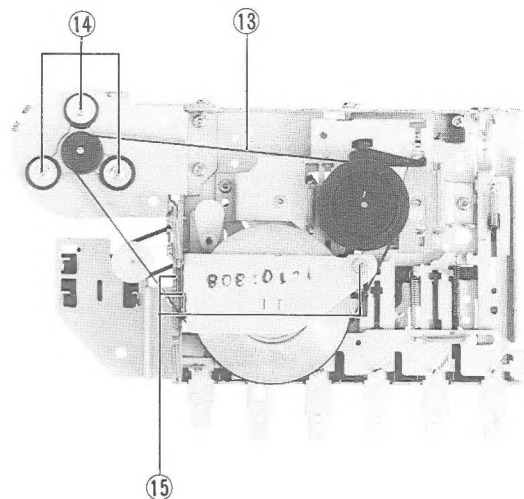


Fig. 9

5. Mechanical parts

1) REC/PB head

Remove a screw (5).

Remove a screw (6) for adjustment.

2) Erase head

Remove a screw (7).

Remove a screw (8).

3) Pinch roller assembly

Remove an E-ring (9) holding its assembly. Pull it off from the shaft.

4) Supply reel disc

Pull out the reel disc stopper (10) and pull out its disc from shaft.

If you broke the stopper, you can use E-ring (REE-1200).

5) Take-up reel disc

Remove the counter belt (11).

(Be careful not to stain the counter belt.)

Do the same manner as in the above. (Reel disc stopper (12))

6) Motor

Remove the main belt (13).

(Be careful not to stain the main belt.)

Remove 3 screws (14) fastening the motor.

7) Flywheel

1. Remove the main belt (13).

2. Remove 3 screws (15) fastening the flywheel bracket.

3. Pull off the flywheel.

Note: When replacing the flywheel, be sure to employ washers and spring.

How to Engage Dial Cord

1. Turn the dial drum fully clockwise (to the highest frequency).
2. Use tetron cord (805 mm long and 0.5 mm in diameter) with applied micro wax.
3. Install the string in the sequence of the numbers.

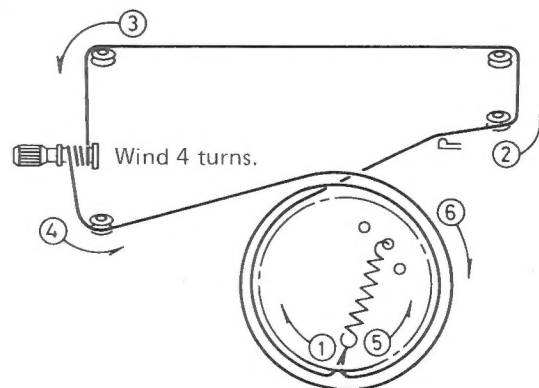


Fig. 10

Main Adjustments

I. Adjustment Location

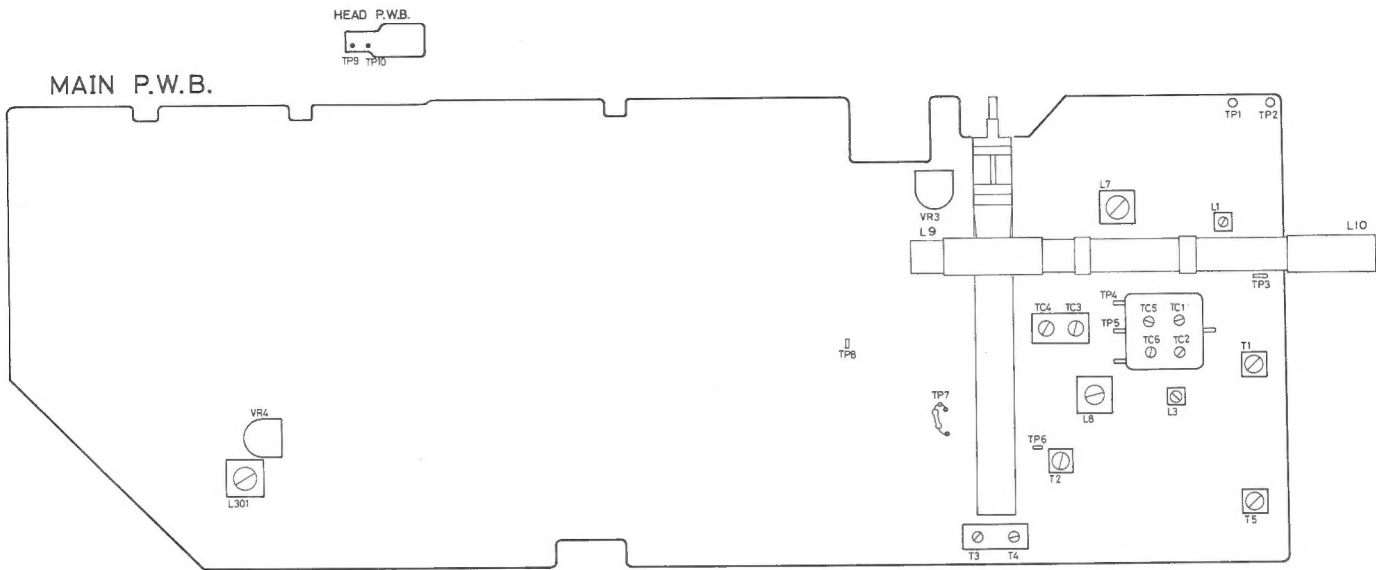


Fig. 11

II. Tuner Adjustment

Output Measuring: Speaker terminal (Impedance = 4 Ω), output level 50 mW (0.45 V/4Ω)

AM IF & RF Alignment

Input (SSG): Modulation 400 Hz, Modulated to 30%

Step	Frequency Band	Input Signal		Place to be aligned	Set the V. Capacitor to
		Frequency	Given to		
1	MW (IF)	455 kHz	TP4 [Output = TP7(hot), TP5]	T3, 4, 5	Minimum
2		Repeat the Step 1, and adjust for no further improvement.			
3	LW	145 kHz	Loop Antenna	L7	Maximum
4		360 kHz		TC3	Minimum
5		Repeat the Steps 3 & 4.			
6		160 kHz	Loop Antenna	L10	160 kHz Signal
7		350 kHz		TC5	350 kHz Signal
8		Repeat the Steps 6 & 7, and adjust for no further improvement.			
9	MW	520 kHz	Loop Antenna	L8	Maximum
10		1650 kHz		TC4	Minimum
11		Repeat the Steps 9 & 10.			
12		600 kHz	Loop Antenna	L9	600 kHz Signal
13		1400 kHz		TC6	1400 kHz Signal
14		Repeat the Steps 12 & 13, and adjust for no further improvement.			

FM IF & Discriminator Alignment

Input (Sweep Generator) : TP2 (hot)
Output (Oscilloscope) : IF TP6 (hot) & TP5
Discriminator TP6 (hot) & TP5

Step	Mode	Place to be aligned	Waveform
1	IF	T1	Fig. 12 (A)
2	Discriminator	T2	Fig. 12 (B)

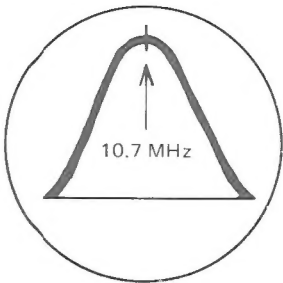


Fig. 12(A)

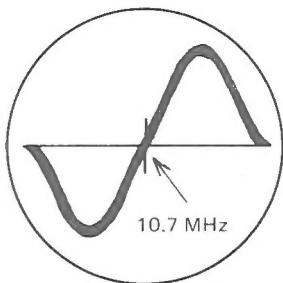


Fig. 12(B)

FM RF Alignment

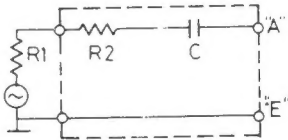
Input (SSG) : Use 75 Ω terminal, modulation 400 Hz modulated to 22.5 kHz deviation.
Connect Hot side to TP1 and Cold side to TP2.

Step	Frequency Band	Input Signal		Place to be aligned	Set the V. Capacitor to
		Frequency	Given to		
1	FM	87.5 MHz	TP1 & TP2	L3	Maximum
2		109 MHz		TC1	Minimum
3		Repeat the Steps 1 & 2.			
4		90 MHz	TP1 & TP2	L1	90 MHz Signal
5		106 MHz		TC2	106 MHz Signal
6		Repeat the Steps 4 & 5, and adjust for no further improvement.			

FM MPX Alignment

- A. 19 kHz Alignment (Regular Method)
- 1. Connect a frequency counter to the test point TP8.
 - 2. Adjust the variable resistor VR3 so that the frequency becomes 19 kHz ± 150 Hz.
- B. 19 kHz Alignment (Simplified Method)
- 1. Tune to an FM stereo broadcast.
 - 2. Set the variable resistor VR3 to the center position of the range in where the stereo indicator keeps lighting.

Dummy Antenna



$R1 + R2 = 80\ \Omega$
 $C = 10\ \text{pF}$
 $R1$: Output impedance of S.S.G.

Fig. 13

III. Adjustment of Cassette Recorder Amplifier

Adjust in the following sequence.

1. Head azimuth

Connect an oscilloscope to the Ext. Spk. jacks. Using test tape VTT-657 (8 kHz, -15 dB), adjust so the phase difference between the L and R outputs is 0° and maximize the output level at the same time.

2. Tape speed

Connect a frequency counter to the Ext. Spk. jacks. Playing back test tape VTT-656 (3,000 Hz), adjust the semi-fixed resistor in the motor so that the frequency counter reads 3,010 Hz.

3. Bias frequency

Connect a frequency counter across TP-9 and TP-10. Adjust L301 so that the counter reads 68.5 kHz.

(Beat cut switch — NORM)
(MODE switch — STEREO)

4. Bias current

Connect an electronic voltmeter across TP-9 and TP-10. Adjust VR4 so that left and right channel levels become the same as values.

* Checking torque

Employ a torque testing cassette tape for the checking.

Playback : 40 ~ 70 gr-cm
Fast forward : 60 ~ 150 gr-cm
Rewind : 60 ~ 150 gr-cm

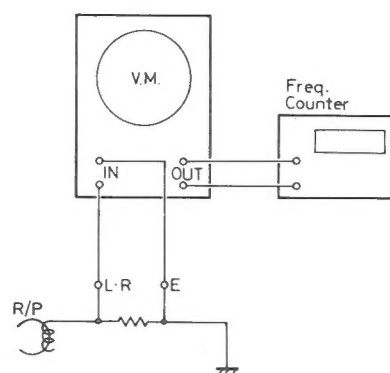


Fig. 14

Tape speed adj. hole

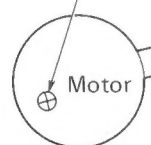


Fig. 15

Block Diagram

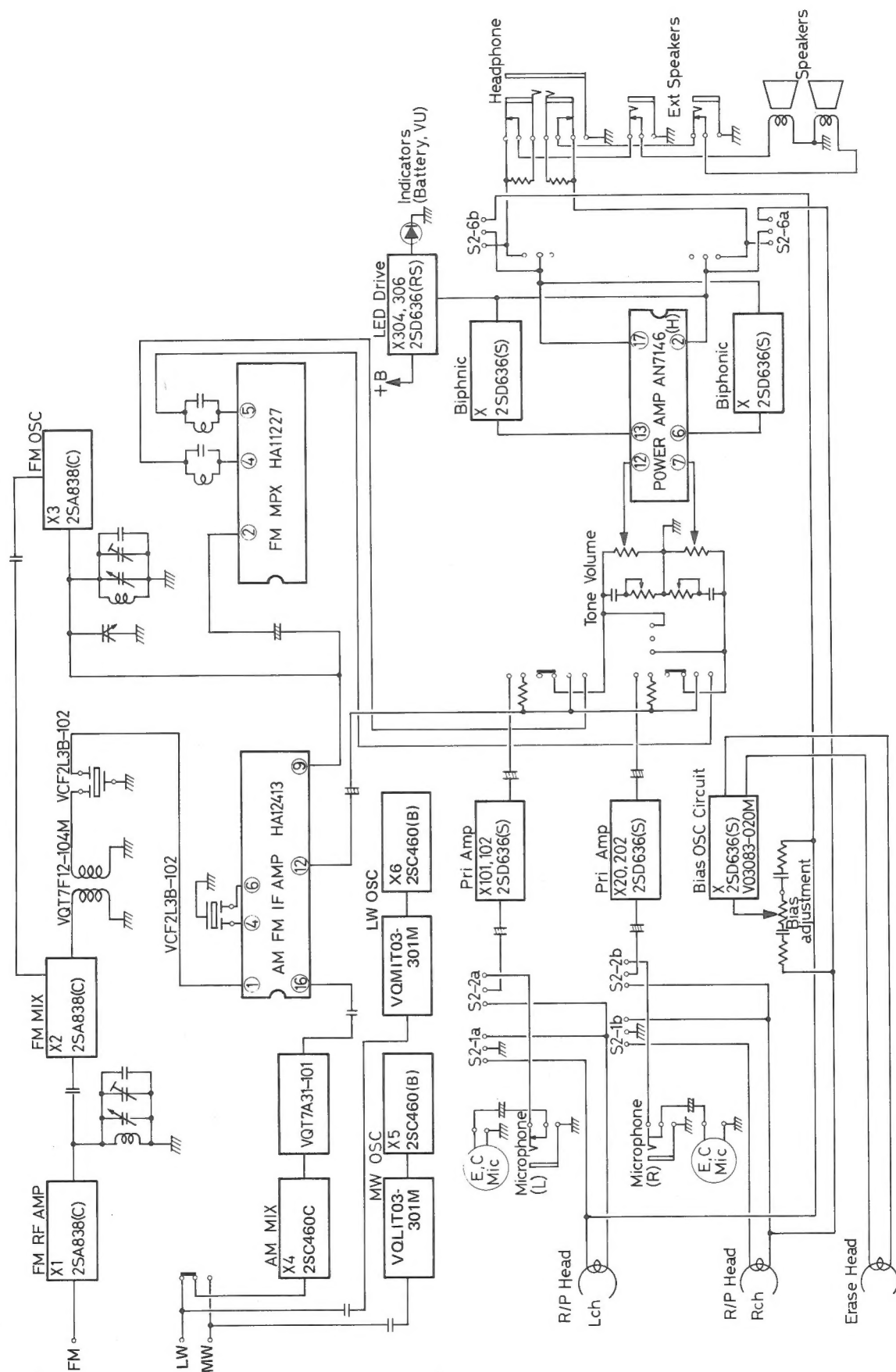
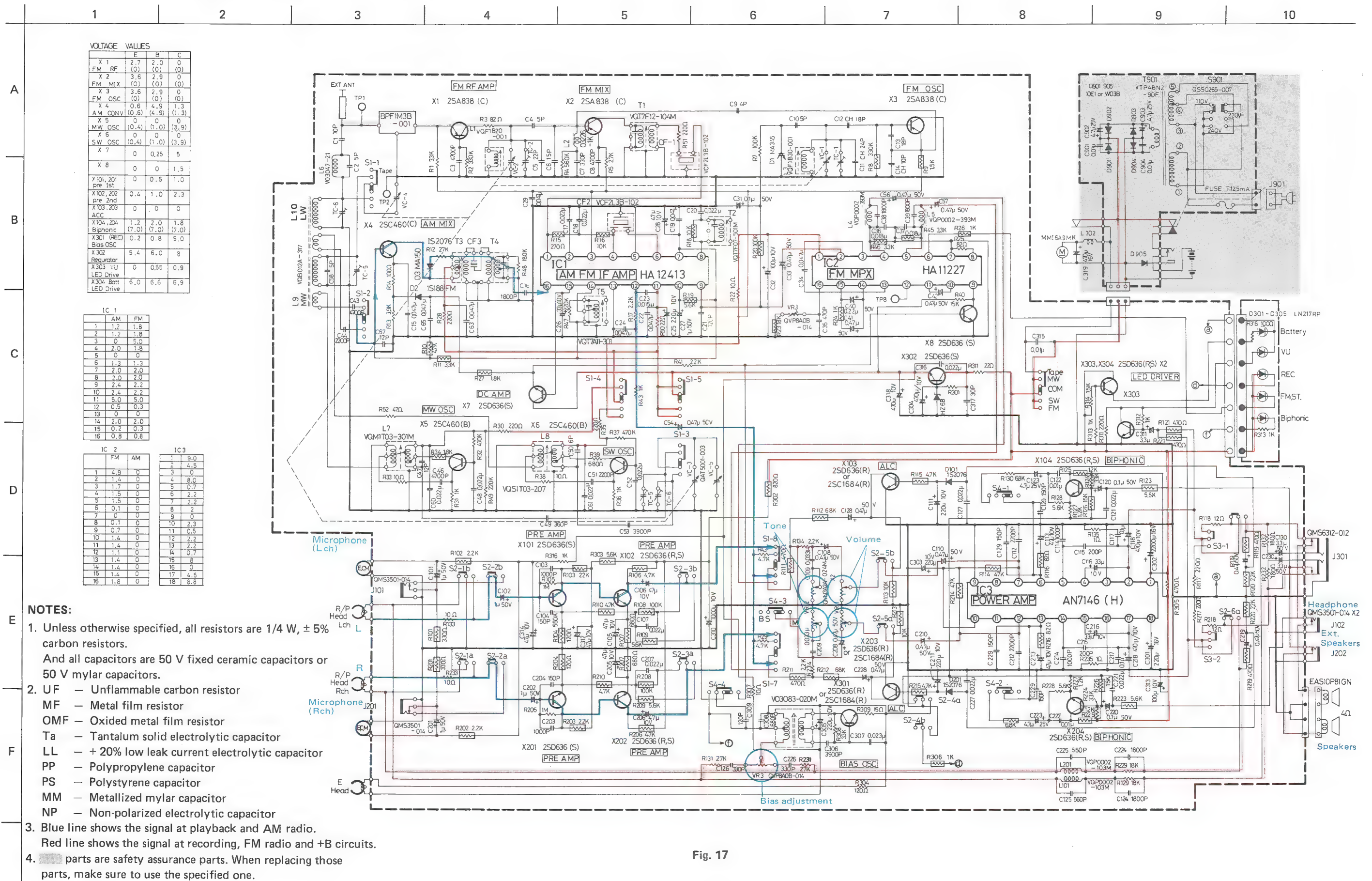


Fig. 16

Standard Schematic Diagram of RC-363



Wiring Connection

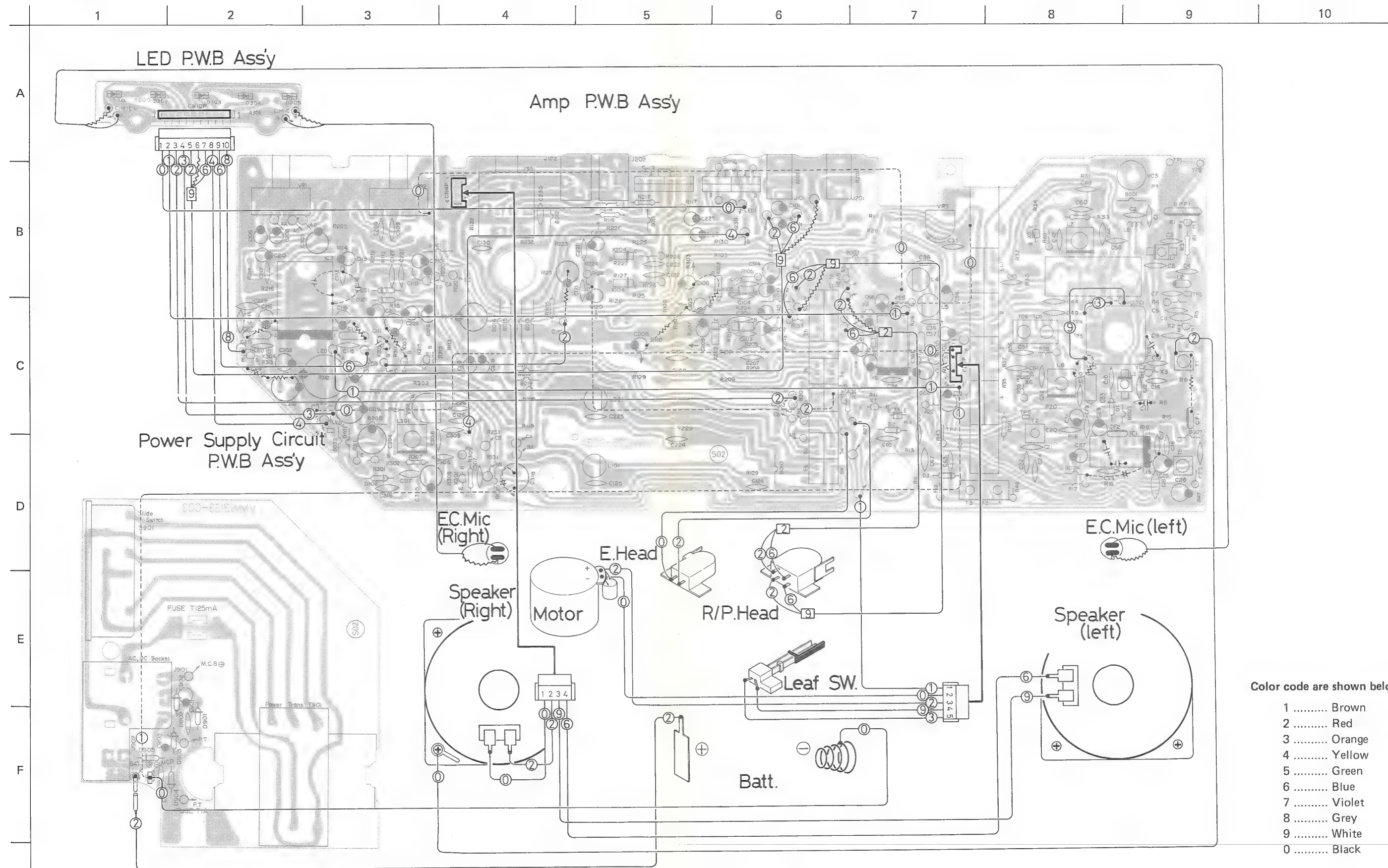


Fig. 18

Enclosure Ass'y and Electrical Parts (Except P.W. Board Parts)

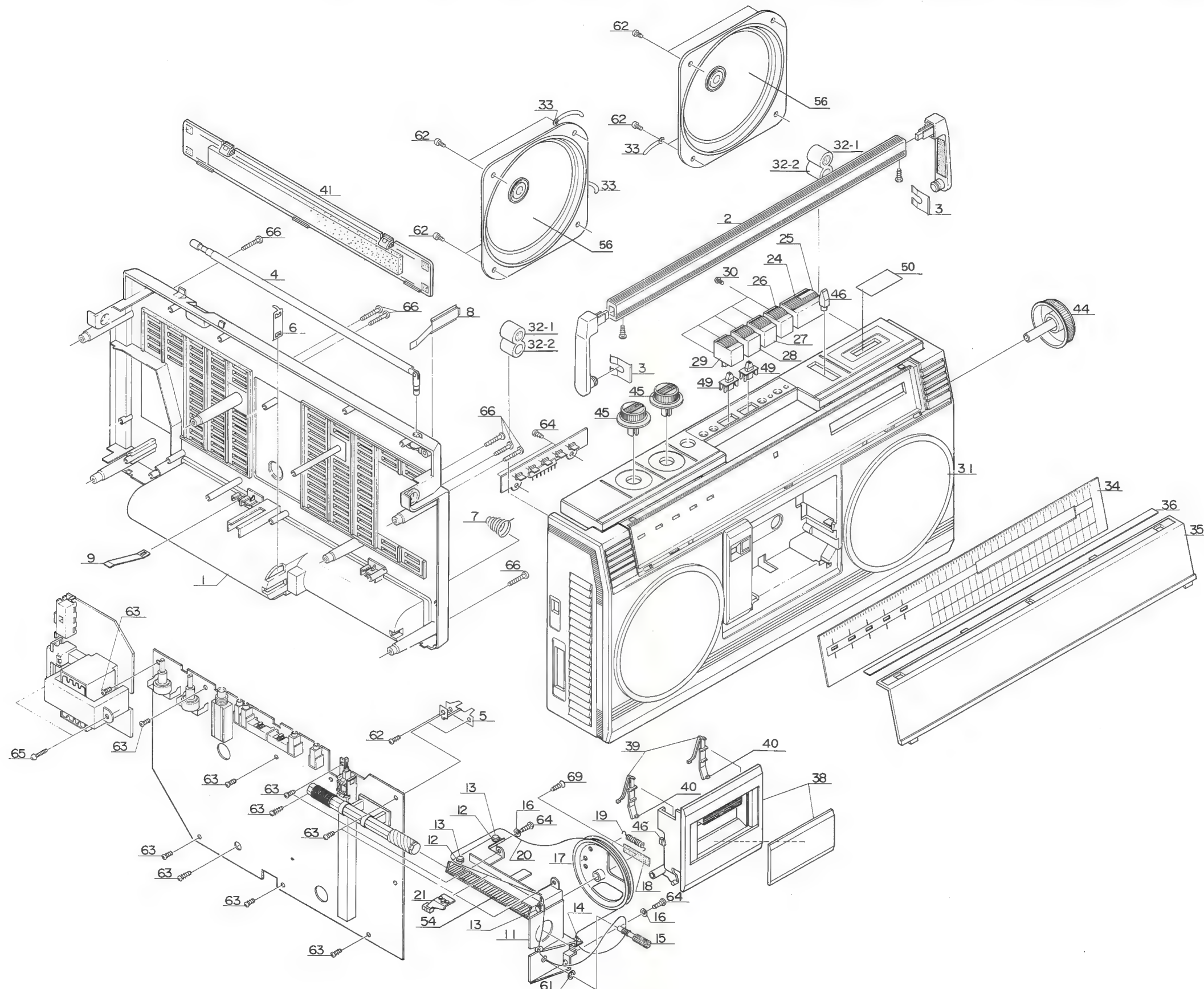


Fig. 19

Mechanical Component Parts

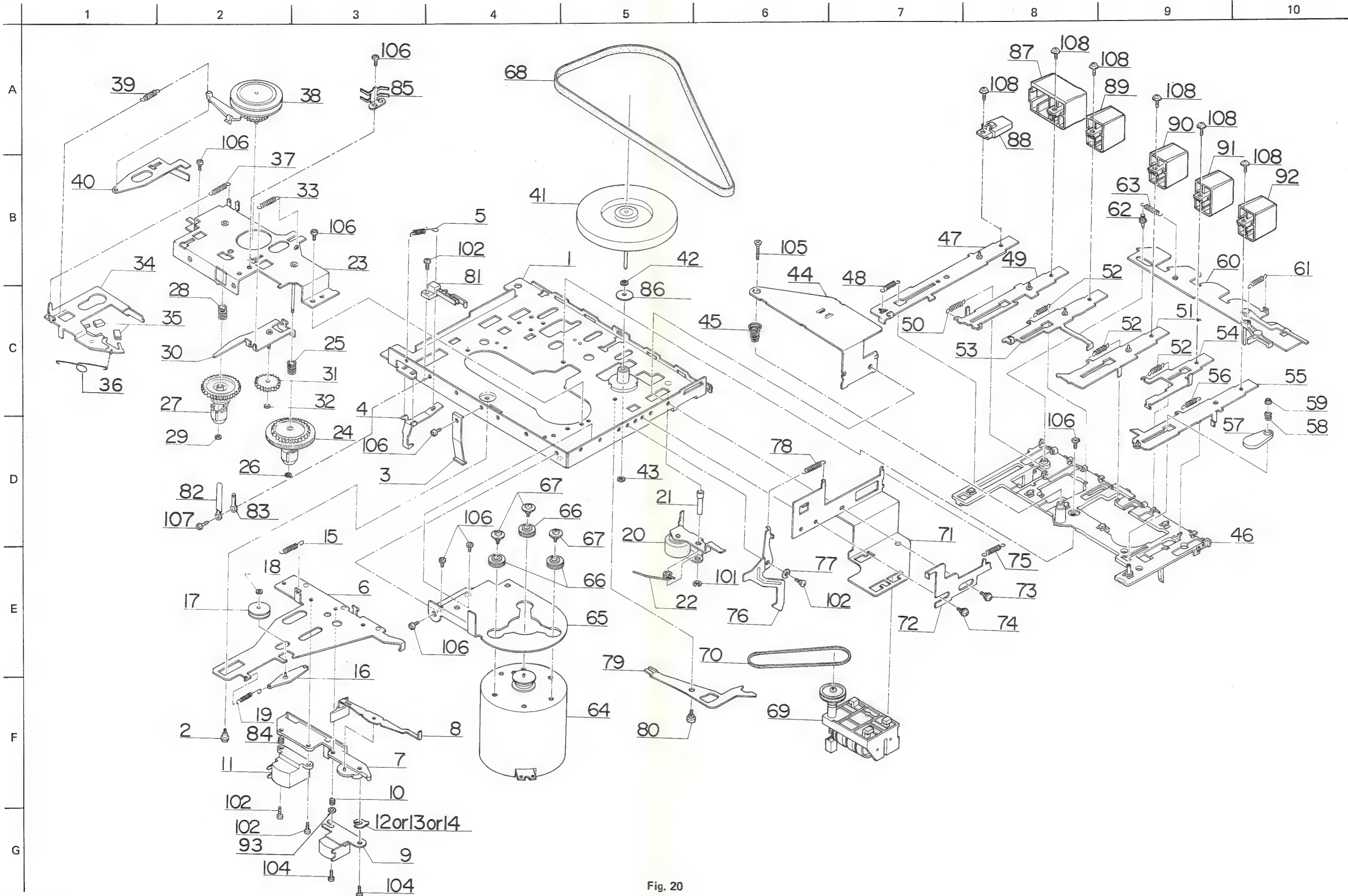


Fig. 20

Enclosure Assembly and Electrical Parts List

(Except P.W. Board Parts)

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
1,37	ZCRC363L-CBR	Rear Cabinet Ass'y		1
1	VJC1152-001	Rear Cabinet		1
2	VJH4026-00A	Handle Ass'y		1
3	VYH4696-001	Handle Spring		2
4	OZR4333-001	Rod Antenna		1
5	VYH4697-001	Rod Antenna Holder		1
6	VYH4010-003	Battery Contact		1
7	53738-1	Battery Spring		1
8	VYH4794-001	Battery Contact		1
9	VYH4698-002	Door Spring		1
10	VKZ4001-010	Wire Holder		2
11	VYH2127-001	Chassis		1
12	VYH4002-001	Roller		4
13	V42562-1	Special Washer		3
14	RTA4008	Rivet		1
15	VYH4009-004	Tuning Shaft		1
16	Q03095-206	Spacer		2
17	QZD1108-002	Dial Drum		1
18	VYSA1R6-021	Spacer		1
19	50153-3	Spring		1
20	VHR2TT9-05A	Dial Rope	ø 0.5 x 805 mm	1 s
21	VJN4056-001	Needle		1
22	VDL5070-001M	Cassette Mecha. Ass'y		1
23	VKY4209-001	Rec. Spring		1
24	VXP3063-001	Push Button	for Play	1
25	VXP3064-001	"	for Rec.	1
26	VXP3065-001	"	for Rew.	1
27	" -002	"	for F.F.	1
28	" -003	"	for Stop	1
29	" -004	"	for Pause	1
30	VKZ4131-001	Special Screw		6
31,34-36,50	ZCRC363L-CBF	Front Cabinet Ass'y		1
31	VJC1151-003	Front Cabinet		1
32-1	VMME62N-024	E.C. Microphone		2
32-2	VYH4782-001	Mic bushing		2
33	VKZ4001-007	Wire Holder		1
34	VJK2131-002	Dial Scale		1
35	VJK2130-001	Dial Lens		1
36	VJD3264-001	Mecha. Plate		1
37	VYN5070-003C	Name Plate	RC-363L	1
	" -004C	"	RC-363LB	1
38	VJT4040-00A	Cassette Door Ass'y		1
39	V44910-002	Cassette Spring		2
40	VYH4020-003	Rubber Ring		1
41	ZCRC363L-BCA	Battery Cover Ass'y		1
44	VXL4140-002	Tuning Knob		1
45	VXL4141-002	Knob	Volume, Tone	2
46	VXQ4026-005	Lever Cap		1
47	VYTA467-001	Dust Spacer		1
48	VYSH210-003	Spacer		1
49	VXS4047-001	Slide Knob		2
50	VJD4484-001	Plate		1
54	VJK4144-001	Dial Back		1
55	VYH4035-001	Supporter		1
56	EAS-10P81GN	Speaker		2
57	VYSA1R4-060	Spacer		2
58	VYSA1R4-058	Spacer		1

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
61	REE3000	E-Ring		1
62	SBSF3008Z	Tapping Screw	for Rod Ant. Holder x 2, Speaker x 8	10
63	SBSF3010C	"	for Rear Cabinet Amp. Ass'y x 9, Rear Cabinet Mecha. Ass'y x 2	11
64	SBSF3010Z	"	for Chassis P.W.B. x 2, LED P.W.B. x 2	4
65	SBSF3020C	"	for Transformer	2
66	SBSF3020R	"	for Front Cabinet — Rear Cabinet	7
68	SPSP2603Z	Screw		1
69	SSSP2608Z	"		1
70	SHBP3006RS	"		2

Mechanical Component Parts List

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
1	17000181ZT	Mecha. Chassis Ass'y		1
2	17000310T	Head Panel Collar Screw		1
3	15100138T	Pack Spring		1
4	15100201T	Rec. Safety Lever		1
5	15100203T	Spring		1
6	17000301T	Head Panel		1
7	17000306T	Head Base		1
8	17000393ZT	Detect Plate Ass'y		1
9	V03078-043	R/P Head		1
10	9400312T	Head Spring Plate		1
11	V03078-041	E. Head		1
12	13270412AT	U. Washer		2
13	13270412BT	"		2
14	13270412CT	"		2
15	17000307T	RC. Spring		1
16	17000312ZT	Take-up Roller Plate Ass'y		1
17	17000309ZT	Take-up Roller Ass'y		1
18	12001503T	Polyslider Washer		1
19	17000308T	Spring		1
20	15100491ZT	Pinch Roller Ass'y		1
21	15100403T	Pinch Roller Arm Sleeve		1
22	17000402T	Pinch Roller Spring		1
23	17000581ZT	Reel Disk Bracket Ass'y		1
24	17000592AZT	Take-up Reel Ass'y		1
25	13301303T	Spring	for Back Tension	1
26	16100604T	Polyslider Washer	$\phi 1.6 \times \phi 3.8 \times t 0.3$	1
27	17000593AZT	Supply Reel Ass'y		1
28	17000518T	Spring	for Back Tension	1
29	16100604T	Polyslider Washer	$\phi 1.6 \times \phi 3.8 \times t 0.3$	1
30	17000582ZT	FF. Gear Plate Ass'y		1
31	12000802BT	FF. Gear		1
32	12001503T	Polyslider Washer	$\phi 1.2 \times \phi 3 \times t 0.25$	1
33	17000512T	Spring	for FF. Gear Plate	1
34	17000583ZT	Main Plate Ass'y		1
35	11991603T	Brake Shoe		2
36	17000514T	Brake Arm Spring		1
37	17000513T	Spring	for Main Plate	1
38	17000692ZT	RF. Clutch Ass'y		1
39	17000605T	Spring	for RF. Clutch Arm	1
40	17000505T	Rew. Spring Plate		1
41	15100702ZT	Flywheel Ass'y		1
42	3280712T	Polyslider Washer	$\phi 2.0 \times \phi 4 \times t 0.25$	1
43	031503T	Nylon Washer	$\phi 1.8 \times \phi 5 \times t 0.5$	1
44	15100791ZT	Flywheel Bracket Ass'y		1
45	17000701T	Thrust Spring		1
46	17000945T	Push Button Base (A)		1
47	170009106ZT	Rec. Button Lever Ass'y		1
48	17000931T	Spring	for Rec.	1
49	170009107ZT	Play Button Lever Ass'y		1
50	17000932T	Spring	for Play	1
51	170009108ZT	FF. Button Lever Ass'y		1
52	17000933T	Spring	for FF., Rew, Stop	3
53	170009109ZT	Rew. Button Lever Ass'y		1
54	17000927T	Stop Button Lever Ass'y		1
55	170009110ZT	Pause Button Lever Ass'y		1

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
56	17000934T	Spring	for Pause	1
57	12221702T	Pause Lever		1
58	13231701T	Spring	for Pause Lever	1
59	17000935T	Pause Lever Stopper		1
60	15100983ZT	Lock Plate Ass'y		1
61	15100928T	Spring	for Auto Lever	1
62	17000921T	Lock Plate Boss		1
63	17000936T	Spring	for Lock Plate	1
64	17001285ZT	Motor Ass'y		1
65	17001002T	Motor Bracket		1
66	5880910T	Rubber Cushion		3
67	12001201T	Collar Screw (S)		3
68	9731201CT	Main Belt		1
69	VKC5143-001S	Tape Counter		1
70	14631503T	Counter Belt		1
71	17001301T	Counter Bracket		1
72	17001108T	Eject Slide Lever		1
73	17001111T	Collar Screw		1
74	17000310T	"		1
75	17001106T	Spring	for Eject Slide Lever	1
76	17001109T	Eject Kick Lever		1
77	13600301T	Collar		1
78	17001110T	Spring	for Eject Kick Lever	1
79	17001201T	Pause Arm Lever		1
80	17001202T	Collar Screw		1
81	MSW-1230-NBKT	Leaf Switch		1
82	4660901T	Wire Clamp		1
83	021501T	Lug		1
84	9400312T	Head Spring		1
85	17000802T	Belt Guide Bracket		1
86	11011107T	Washer	ø 2.3 x ø 9.8 x t 0.3	1
87	VXP3063-001	Push Button		1
88	VXP3064-001	"		1
89	VXP3065-001	"		1
90	" -002	"		1
91	" -003	"		1
92	" -004	"		1
93	15601501T	Washer		1
101	REE2000	E-Ring		1
102	SPSD2605Z	TH. Tap. Screw	Eject Kick Lever x 1, Leaf Switch x 1	2
103	SPSP2008Z	Screw	E. Head	1
104	SPSX2007Z	PM. Screw	R/P Head	2
105	SSSF2612Z	Tapping Screw	Thrust Spring	1
106	20PZ26040T	"	Pack Spring x 1, Rew. Spring Plate x 3, Lock Plate Boss x 1, Rubber Cushion x 3	8
107	20PZ26050T	"		1
108	17000973T	Collar Screw		6

Main P.W. Board Parts List

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
VR1, 2 VR3, 4 TC1, 2, 3, 4 VC1, 2, 3, 4 TC5, 6	VMW1025-001A	P.W. Board		1
	QVN3A2A-024M	V. Resistor		2
	QVP8A0B-014	"		2
	QAP1224-518	V. Capacitor		1
	QAT2002-001M	T. Capacitor		1
S1-1 ... 8 S2-1a ... 6a S2-1b ... 6b S3-1 ... 2 S4-1 ... 4	QSL8410-002	Lever Switch		1
	QSSC201-106	Slide Switch		1
	QSS2201-203	"		1
	QSS4301-034	"		1
J102, 202, 101, 201 J301	QMS3501-014	Jack Ass'y		4
	QMS6312-012	Headphone Jack		1
L1 L3 L8 L7 L301	VQF1B20-001	RF Coil (FM)		1
	VQF1B30-001	OSC. Coil (FM)		1
	VQM1T03-301M	" (MW)		1
	VQL1T03-301M	" (LW)		1
	V03083-020M	" (Bias)		1
T1 T2 T3, 4 CF3 T5	VQT7F12-104M	IFT		1
	VQT7F07-501M	"		1
	VQT7A31-101	"		1
	VQT7A11-301	"		1
L2 L4, 5 L101, 201 L6	03226-1K	Inductor		1
	VQP0002-393M	"		2
	" -103M	"		2
	V03047-21	"		1
CF1, 2 BPF1	VCF2L3B-102	C. Filter		2
	VBP1M3B-001	B. P. Filter		1
	VYH4295-002	Radiation Plate		1
	VYH4334-001	Earth Plate		1
	LPSP3012ZS	Screw		2
IC3 IC1 IC2	AN7146(H)	IC (Power Amp.)		1
	HA12413	" (IF Amp.)		1
	AN7410	" (MPX)		1
X1, 2, 3 X4, 5, 6 X7, 8, 101, 201, 102, 202, 103, 203, 104, 204, 301, 302, 303, 304	2SA838(C)	Transistor		3
	2SC1359(B)	"		3
	2SD636(S)	"		14
D1 D2 D3, 101, 201 D306	MA345	Variable Capacitor		1
	1S188FM	Ge. Diode		1
	MA150	Si. Diode		3
	HZ6B	Ze. Diode		1
L9, 10	VQB012B-308	Bar Ant. Ass'y		1
C4, 9 C2, 58 C50 C59 C10, 47 C1, 6	QCS11HJ-4R0	C. Capacitor	4 pF 50 V	2
	" -5R0	"	5 pF "	2
	" -6R0	"	6 pF "	1
	" -7R0	"	7 pF "	1
	" -8R0	"	8 pF "	2
	" -150	"	15 pF "	2

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
C11	QCS11HJ-180	C. Capacitor	18 pF 50 V	1
C5	" -220	"	22 pF "	1
C126, 226	" -331	"	330 pF "	2
C49	" -361	"	360 pF "	1
C115, 215	QCS11HK-560	"	56 pF "	2
C309	" -820	"	82 pF "	1
C21	" -121	"	120 pF "	1
C62, 104, 204	" -151	"	150 pF "	3
C7	" -331	"	330 pF "	1
C35	" -471	"	470 pF "	1
C125, 225	" -561	"	560 pF "	2
C12	QCT05CH-8R0	"	8 pF "	1
C13, 14	" -180	"	18 pF "	2
C114, 214	QCT41HK-681	"	680 pF "	2
C308	" -821	"	820 pF "	1
C103, 203	" -102	"	0.001 μ F "	2
C16, 38, 39, 124, 224	" -182	"	0.0018 μ F "	5
C44, 51, 112, 212	" -222	"	0.0022 μ F "	4
C306	" -392	"	0.0039 μ F "	1
C3, 8, 43, 46	" -472	"	0.0047 μ F "	4
C24	QCF11EZ-103	"	0.01 μ F 25 V	1
C17, 18, 30, 60, 61, 307	" -223	"	0.022 μ F "	6
C15, 22, 29, 45	" -473	"	0.047 μ F "	4
C23, 122, 222	QCC11EM-103	"	0.01 μ F "	3
C20, 48, 52, 107, 207, 121, 221	" -223	"	0.022 μ F "	7
C109, 209	" -333	"	0.033 μ F "	2
C19, 34	" -473	"	0.047 μ F "	2
C36, 37	QFM41HK-183	M. Capacitor	0.018 μ F 50 V	2
C117, 217	QFM41HM-104	"	0.1 μ F "	2
C53	QFS21HJ-392	P. Capacitor	0.0039 μ F "	1
C31, 120, 220	QEC41HM-104	E. Capacitor	0.1 μ F "	3
C40	" -224	"	0.22 μ F "	1
C41	" -474	"	0.47 μ F "	1
C26, 116, 216	QET41AR-336	"	33 μ F 10 V	3
C28, 105, 205, 106, 206, 111, 211, 113, 213	" -476	"	47 μ F "	9
C32	" -107	"	100 μ F "	1
C25, 303, 305	" -227	"	220 μ F "	3
C55, 118, 218, 304	" -477	"	470 μ F "	4
C302	QET41CR-476	"	47 μ F 16 V	1
C310	" -477	"	470 μ F "	1
C301	" -228	"	2200 μ F "	1
C123, 223	QET41ER-475	"	4.7 μ F 25 V	2
C33, 42, 54, 56, 57, 108, 208, 110, 210, 119, 219	QET41HR-474	"	0.47 μ F 50 V	11
C27, 101, 201, 102, 202	" -105	"	1 μ F "	5
R33, 38	QRD141J-100S	C. Resistor	10 Ω ¼ W	2
R117, 217	" -150S	"	15 Ω "	2
R22	" -220S	"	22 Ω "	1
R3	" -330S	"	33 Ω "	1
R116, 216, 301	" -820S	"	82 Ω "	3
R307	" -101S	"	100 Ω "	1
R303	" -121S	"	120 Ω "	1
R304	" -391S	"	390 Ω "	1
R4	" -564S	"	560 k Ω "	1
R309	QRD143J-150S	"	15 Ω "	1
R32, 37	" -474S	"	470 k Ω "	2
R310	" -564S	"	560 k Ω "	1
	V44611-002	Formed Bus Wire		8
	" -003	"		8
	" -005	"		4
	" -006	"		1
	VYH4740-00A	Shield Ass'y		1
	VKL3143-001	Board in Tab		5
	QMV5005-005	Connector		1
	" -004	"		2

Main Amp. P.W. Board Parts

	1	2	3	4	5	6	7	8	9	10
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A

B

C

D

E

F

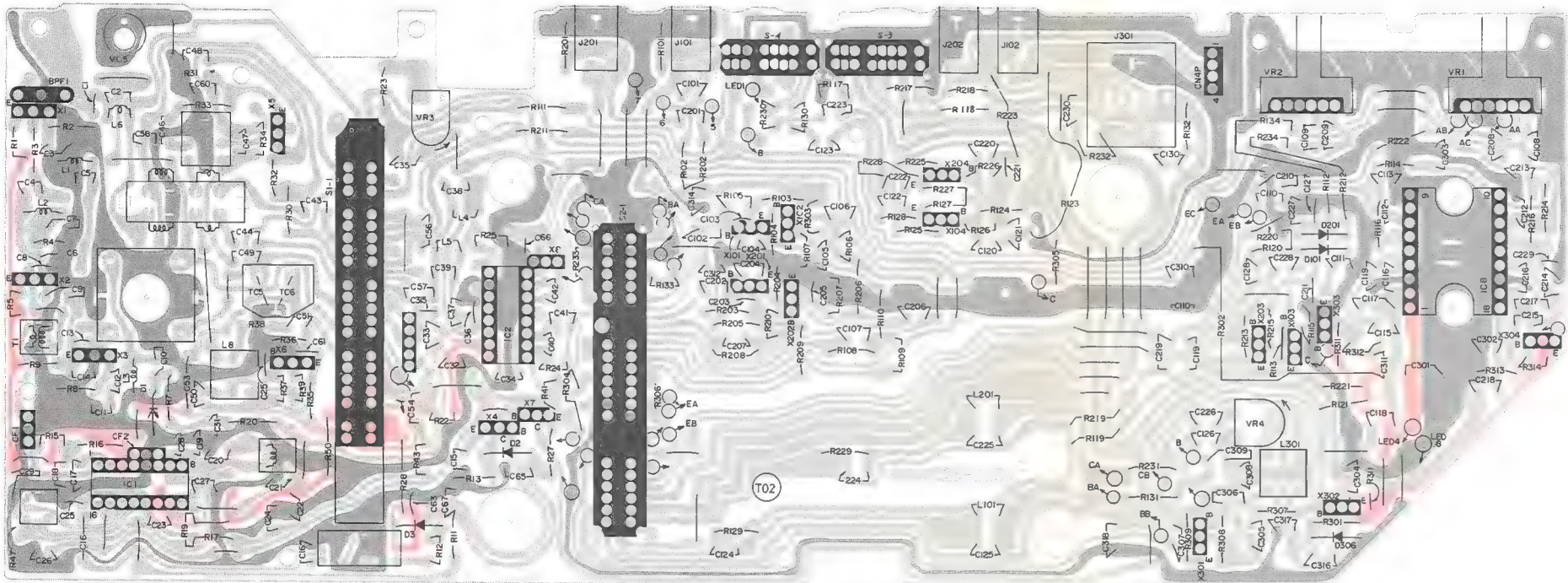


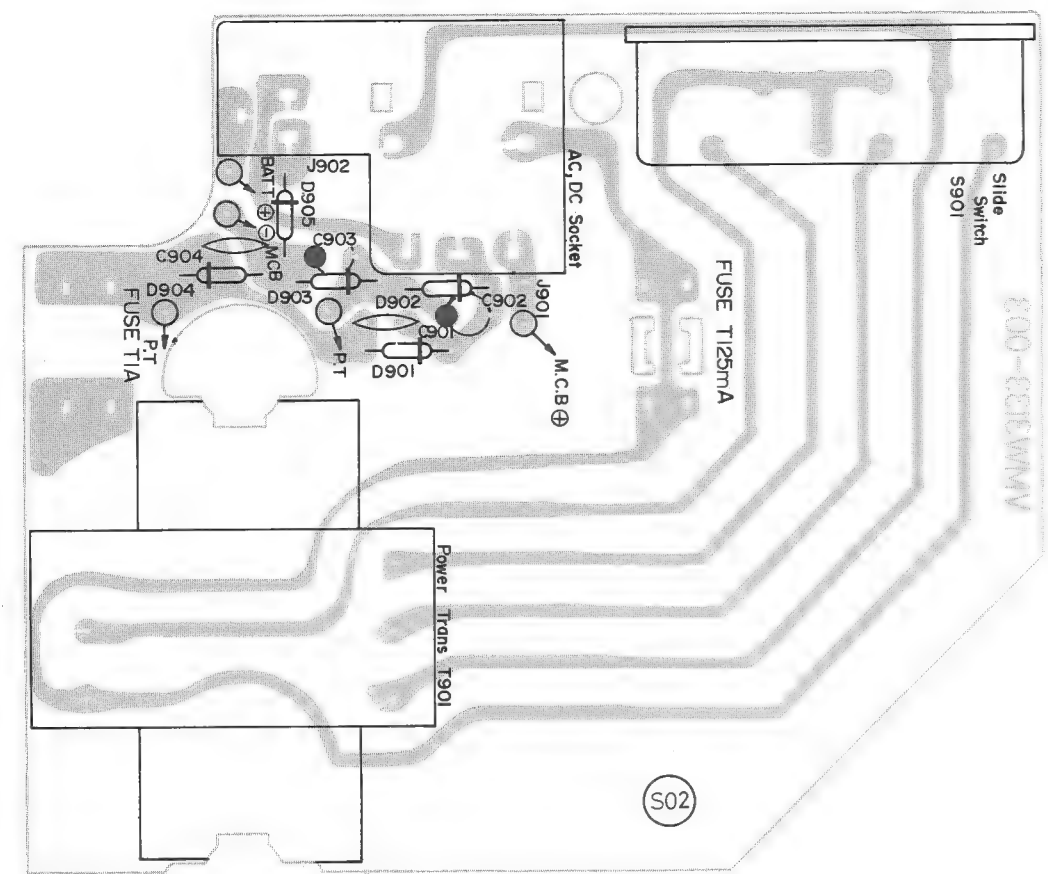
Fig. 21

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
IC1	AM	1.2	1.2	0	2.0	0	1.3	2.0	2.0	2.4	2.4	5.0	0.5	0	2.0	0.2	0.6		
	FM	1.8	1.8	5.0	1.8	0	1.3	2.0	2.0	2.2	2.2	5.0	0.3	0	2.0	0.3	0.8		
IC2		4.9	1.4	1.7	1.5	1.5	0.1	0	0.1	0.7	1.4	1.4	1.1	1.4	1.4	1.4	1.8		
IC3		9.0	4.5	0	8.0	0.7	2.2	2.2	2.0	0	2.3	0.5	2.2	2.2	0.7	8	0	4.5	8.8

		E	B	C	
X1	FM FE	2.7 0	2.0 0	0 0	at FM at AM
X2	FM MIX	3.6 0	2.9 0	0 0	at FM at AM
X3	FM OSC.	3.6 0	2.9 0	0 0	at FM at AM
X4	AM CONV.	0.6 0.6	4.9 4.9	1.3 1.3	at FM at AM
X5	MW OSC.	0 0.4	0 1.0	0 3.9	at FM at AM
X6	SW OSC.	0 0.4	0 1.0	0 3.9	at FM at AM
X101, 201	Pre 1st	0	0.6	1.0	
X102, 202	Pre 2nd	0.4	1.0	2.3	
X103, 203	ALC	0	0	0	
X104, 204	Byphonic	1.2 7.0	2.0 7.0	1.8 7.0	ON OFF
X301	Bias OSC.	0.2	0.8	5.0	at REC.
X302	Regulator	5.4	6.0	8.0	
X303	VU LED Driver	0	0.55	0.9	
X304	Batt. LED Driver	6.0	6.6	6.9	

Voltage values are measured by the following meter without input signal at playback mode.
C. Tester = Circuit Tester (20 kΩ impedance)
E. Voltmeter = Electronic Voltmeter

Power Supply Circuit Board Parts



Other P.W. Board Parts List

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

Ref. No.		Parts No.	Parts Name	Remarks	Q'ty
(Power Supply)					
J901, 902		VMW3133-003	P.W. Board		1
		QMC0265-008	AC, DC Socket	(RC-363L)	1
		" -008BS	"	(RC-363LB)	1
S901	⚠	A44594-001	Fuse Clip		1
S901-1 ... 2	⚠	QMF51A2-1R0	Fuse		2
T901	⚠	QSS2325-107	Slide Switch	(RC-363L)	1
D901-905	⚠	VTP48N2-90F	Power Transformer	(RC-363L)	1
C901-904	⚠	WO3B	Si. Diode	or 10E1	5
		QCF11EZ-103	C. Capacitor		4
(L.E.D.)					
D301-305		VMW1025-001B	P.W. Board	for LED	1
		LN217RP	LED		5
		QMV5004-007	Connector	(RC-363L)	1
(R/P Head)					
		VMW1025-001C	P.W. Board		1
		V03078-043	R/P Head		1

Other P.W. Board Parts

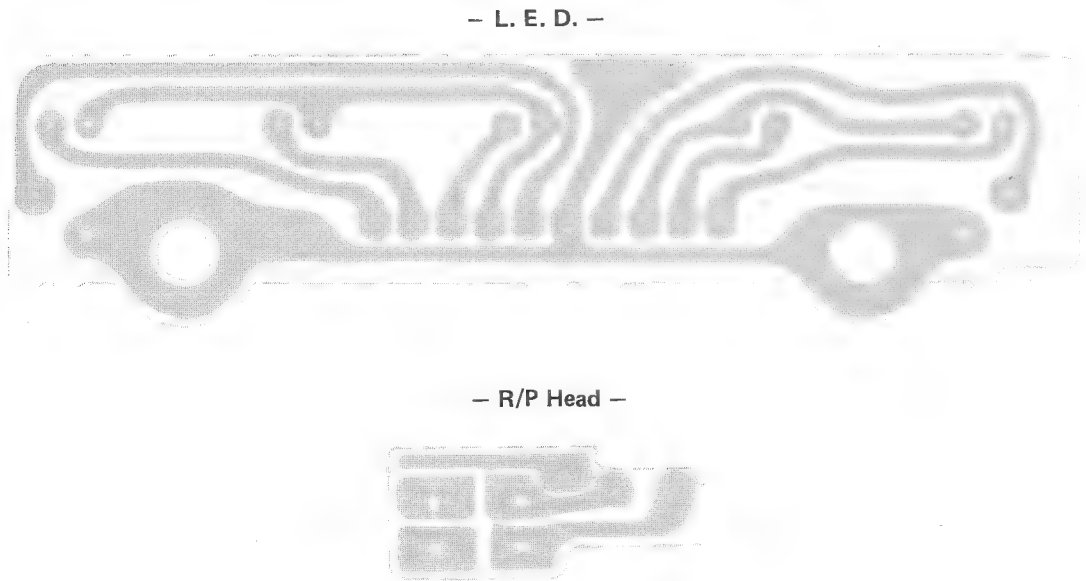


Fig. 23

Packing

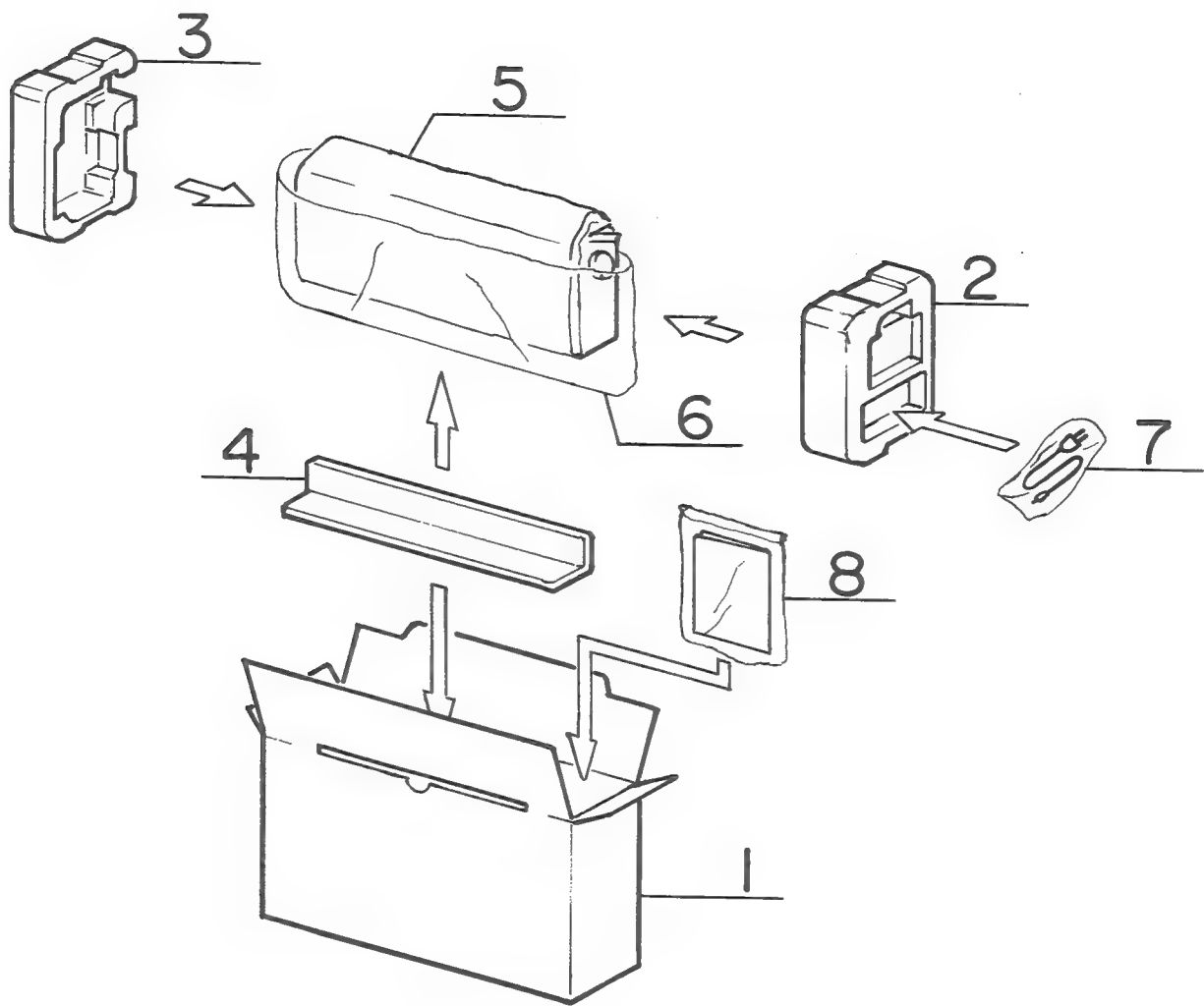


Fig. 24

Packing Material Parts List

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
1	VPD5070-J17	Carton	RC-363L	1
	" -J19	"	RC-363LB	1
2	VPH1228-001	Side Cushion (L)	Left	1
3	VPH1229-001	" (R)	Right	1
4	VPH4103-003	Door Protector		1
5	VHPJ079-036	Paper Sheet		1
6	QPGA060-05005	Poly Bag	for Unit	1
7	QPGA012-01505	"	for Power Cord	1
8	QPGB024-03404	"	for Instruction Book	1

Accessories

Parts No.	Parts Name	Remarks	Q'ty
53866-2	Label		1
VGT12S3-J04	Cassette Tape		1
QMP3950-183	Power Cord		1
VYA4001-00A	Head Cleaning Stick		1
VYA4002-001	Short Plug		1
VNM0808-301	Instruction Book		1
VNF0800-001	Feature Sticker		1



VICTOR COMPANY OF JAPAN, LIMITED.
RADIO & RECORDING MACHINE DIVISION 10-1, 1-chome, Ohwatari-cho, Maebashi-city 371, Japan



Supplementary SERVICE MANUAL

MODEL RC-363 L/LB

FM-MW-LW 3-BAND RADIO STEREO CASSETTE RECORDER

This manual is supplementary of service manual (No. 1445) of model RC-363L/LB.
The other parts not listed here are the same as those of service manual (No. 1445).
Please correct of these parts in your service manual.

(Page 19~20)

Main P.W. Board Parts List

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
VR1, 2	VMW1025-004A	P. W. Board		—
VR3	QVN3A2A-024M	V. Resistor		2
VR4	QVP8A0B-014	"		1
TC1, 2, 3, 4	" -024	"		1
VC1, 2, 3, 4	QAP1224-518	V. Capacitor		1
TC5, 6	QAT2002-001M	T. Capacitor		1
S1-1 ... 8	QSL8410-002	Lever Switch		1
S2-1b ... 6b	QSS201-106	Slide Switch		1
S2-1a ... 6a				
S3-1 ... 2	QSS2201-203	"		1
S4-1 ... 4	QSS4301-034	"		1
J102, 202, 101, 201	QMS3501-014	Jack Ass'y		4
J301	QMS6312-012	Headphone Jack		1
L1	VQF1B20-001	RF Coil	FM	1
L3	VQF1B30-001	Osc. Coil	FM	1
L8	VQM1T03-301M	"	MW	1
L7	VQL1T03-301M	"	LW	1
L301	V03083-020M	"	Bias	1
T1	VQT7F12-104M	IFT		1
T2	VQT7F07-501M	"		1
T3, 4, CF3	VQT7A31-101	"		1
T5	VQT7A11-301	"		1
L2	03226-1K	Inductor		1
L4, 5	VQP0002-393M	"		2
L101, 201	" -103M	"		2

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
CF1, 2 B.P.F. 1	VCF2L3B-102 VBP1M3B-001 VYH4295-002 VYH4334-001 LPSP3012ZS	C. Filter B. P. Filter Radiation Plate Earth Plate Screw		2 1 1 1 2
IC3 IC1 IC2 X1, 2, 3 X4	AN7146(M,H) HA12413 HA11227 2SA838(C) 2SC460(C)	IC " " Transistor "	Power Amp. IF Amp. MPX	1 1 1 3 1
X5, 6 X101, 201 X102, 202, 104, 204 X7, 8, 302, 303, 304 X103, 203, 301	2SC460(B) 2SD661(S) 2SD636(R,S) 2SD636(R,S) 2SD636(R)	" " " " "	or 2SC1684(R,S) or 2SC1684(R)	2 2 4 5 3
C21, 309 C68, 69, 73, 129, 229, 104, 204 C64 C7 C35	QCS11HK-121 " -151 " -271 " -331 " -471	C. Capacitor " " " "	120 pF 50 V 150 pF " 270 pF " 330 pF " 470 pF "	2 7 1 1 1
C125, 225 C317 C14 C12 C11	" -561 " -300 QCT05CH-100 " -180 " -220	" " " " "	560 pF " 30 pF " 10 pF " 18 pF " 22 pF "	2 1 1 1 1
C308 C103, 203, 114, 214 C16, 38, 39 C124, 224 C112, 212	QCY41HK-681 " -102 " -182 " -272 " -222	" " " " "	68 pF " 0.001 μ F " 0.0018 μ F " 0.0027 μ F " 0.0022 μ F "	1 4 3 2 2
C306 C3, 8, 43, 44, 46, 51 C315 C17, 18, 60, 316 C15, 29, 63, 65	" -332 " -472 QCF11EZ-103 " -223 " -473	" " " " "	0.0033 μ F " 0.0047 μ F " 0.01 μ F 25 V 0.022 μ F " 0.047 μ F "	1 6 1 4 4
C127, 227 C122, 222 C20, 48, 52, 107, 207, 24, 61, 121, 221 C109, 209 C19, 22, 34	QCF11HP-223 QCC11EM-103 " -223 " -333 " -473	" " " " "	0.022 μ F 50 V 0.01 μ F 25 V 0.022 μ F " 0.033 μ F " 0.047 μ F "	2 2 9 2 3
C23 C36, 37 C117, 217 C307 C49	QFM41HK-153 " -183 QFM41HM-104 QFM41HJ-273 QFS41HJ-181	M. Capacitor " " " P. Capacitor	0.015 μ F 50 V 0.018 μ F " 0.1 μ F " 0.027 μ F " 180 pF "	1 2 2 1 1
C31, 54, 120, 220 C40 C41 C26, 116, 216 C28, 105, 205, 106, 206, 113, 213, 312, 314	QEC41HM-104 QEC41HM-224 " -474 QET41AR-336 " -476	E. Capacitor " " " "	0.1 μ F " 0.22 μ F " 0.47 μ F " 33 μ F 10 V 47 μ F "	4 1 1 3 9
C66, 130, 230, 311 C32, 313 C25, 111, 211, 303, 305 C118, 318, 218, 304 C310 C302	QET41HR-335 QET41AR-107 " -227 " -477 " -108 QET41CR-227	" " " " " "	3.3 μ F 50 V 100 μ F 10 V 220 μ F " 470 μ F " 1000 μ F " 220 μ F 16 V	4 2 5 4 1 1

Ref. No.		Parts No.	Parts Name	Remarks	Q'ty
C301		QET41CR-228	E. Capacitor	2200 μ F 35 V	1
C123, 223		QET41ER-475	"	4.7 μ F 25 V	2
C33, 42, 56, 57, 108, 208, 110, 210, 128, 228, 119, 219		QET41HR-474	"	0.47 μ F 50 V	12
C27, 101, 201, 102, 202		" -105	"	1 μ F "	5
R311	△	QRD143J-220	Fusible Resistor	22 Ω ¼ W	1
R135, 235		QRD123J-1R0	C. Resistor	1 Ω ½ W	2
R33, 307		QRD141J-100S	"	10 Ω ¼ W	2
R118, 218		QRD143J-120S	"	12 Ω "	2
R305		" -471S	"	470 Ω "	1
R50, 309		QRD141J-220S	"	22 Ω "	2
R3, 216		" -820S	"	82 Ω "	2
R217, 51, 315		" -221S	"	220 Ω "	3
R304		" -121S	"	120 Ω "	1
R115		" -472S	"	4.7 k Ω "	1
R318		" -101S	"	100 Ω "	1
R124, 224		" -333S	"	33 k Ω "	2
R205		" -105S	"	1 M Ω "	1
R17		QRD143J-222S	"	2.2 k Ω "	1
R43, 312		" -102S	"	1 k Ω "	1
R22, 38, 133, 233		" -100S	"	10 Ω "	4
R47, 53		" -224S	"	220 k Ω "	2
R105		" -105S	"	1 M Ω "	1
R48		" -184S	"	180 k Ω "	1
R117		" -221S	"	220 Ω "	1
R4		" -564S	"	560 k Ω "	1
R25		" -820S	"	82 Ω "	1
R39		" -681S	"	680 Ω "	1
R128, 228		" -562S	"	5.6 k Ω "	2
R12		" -273S	"	27 k Ω "	1
		V44611-001	Formed Bus Wire		1
		" -002	"		8
		" -003	"		4
		" -005	"		2
		" -006	"		9
		VYSH103-029	Spacer		1
		VYH4740-00A	Shield Ass'y		1
		V44691-001	Clamp		2
		VKL3143-001	Board in Tab		3
		VMZ0005-001	Post Pin		4
		QMV5005-005	Connector		1
		" -004	"		1
		VYH4561-001	Shield		1

Other P.W. Board Parts List

⚠ parts are safety assurance parts.

When replacing those parts, make sure to use the specified one.

Ref. No.		Parts No.	Parts Name	Remarks	Q'ty
(Power Supply)					
J901, 902, S901	⚠	VMW3133-004	P. W. Board		1
	⚠	QMC0265-008	AC, DC Socket	RC-363L	1
	⚠	" -008BS	"	RC-363LB	1
S901-1 ... 2	⚠	QSS2325-107	Slide Switch	RC-363L	1
	⚠	" -107BS	"	RC-363LB	1
T901	⚠	VMZ0005-001	Post Pin		1
	⚠	VTP48N2-90F	Power Transformer	RC-363L	1
		" -90FBS	"	RC-363LB	1
D901-905		WO3B	Si. Diode	or 10E1	5
		A44594-001	Fuse Clip		2
	⚠	QMF51A2-1R0BS	Fuse	RC-363LB	1
	⚠	" -1R0	"	RC-363L	1
C901, 904		OCF11EZ-103	C. Capacitor		2
C902, 903		QET41ER-475	E. Capacitor		2
(L.E.D.)					
D301-305		VMW1025-004B	P. W. Board		1
		LN217R	LED		5
		QMV5004-010	Connector		1
(R/P Head)					
		VMW1025-004C	P. W. Board		—
(E Head)					
		VMW1025-004D	P. W. Board		—

JVC

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